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- ☐ 4. **Human SMG-1: Cloning, biochemical characterization, and functional analysis of a novel phosphoinositide-dependent kinase-related kinase**
 by Denning, Gabriela Del Carmen, Ph.D., The University of Texas Graduate School of Biomedical Sciences at Galveston, 2002, 133 pages; AAT 3041741
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- ☐ 5. **Cloning and characterization of *smg-3*, a gene required for nonsense-mediated mRNA decay in *Caenorhabditis elegans***
 by Kuchma, Sherry Lynn, Ph.D., The University of Wisconsin - Madison, 1999, 142 pages; AAT 9956241
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- ☐ 6. **Characterization of cis- and trans-acting factors required for nonsense-mediated mRNA decay in *Caenorhabditis elegans***
 by O'Connor, Sean Lawrence, Ph.D., The University of Wisconsin - Madison, 1998, 151 pages; AAT 987043
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- ☐ 7. **Molecular analysis of *smg-2*, a gene required for nonsense-mediated mRNA decay in *Caenorhabditis elegans*; its potential role in human tumorigenesis**
 by Page, Michelle Fleur, Ph.D., The University of Wisconsin - Madison, 1998, 212 pages; AAT 9837043
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- ☐ 8. **Molecular analysis of *smg-5*, a gene required for nonsense-mediated mRNA decay in *Caenorhabditis elegans***
 by Anders, Kirk Richard, Ph.D., The University of Wisconsin - Madison, 1997, 119 pages; AAT 9807824
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- ☐ 9. **Genetic analysis and characterization of the *smg* genes: Six genes in *Caenorhabditis elegans* that affect mRNA stability**
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-  10. **Molecular and genetic analysis oflin-29, a heterochronic gene controlling hypodermal cell fate in C.**
by Papp, Andrew Alan, Ph.D., Harvard University, 1989, 157 pages; AAT 9013249

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L2	301	(LICK or SMG1 or SMG-1) AND kinase	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/10/13 07:14
L3	36	(LICK or SMG1 or SMG-1) same kinase	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/10/13 07:14
L4	34	(SMG1 or SMG-1) same kinase	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/10/13 07:14
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SMG-1
Bridging
Protein

EP 1 541 684 A1

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/11353

A. CLASSIFICATION OF SUBJECT MATTER Int.Cl ⁷ C12N15/12, 1/21, 5/10, C07K14/47, 16/18, C12Q1/02, 1/48, G01N33/15, 33/50, A01K67/027, A61K39/395, 45/00, A61P43/00, G01N33/15, 33/50 According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) Int.Cl ⁷ C12N15/09-90, 1/21, 5/10, C07K14/47, 16/18, C12Q1/02, 1/48, G01N33/15, 33/50, A01K67/027, A61K39/395, 45/00, A61P43/00, G01N33/15, 33/50 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Jitsuyo Shinan Koho 1926-1996 Toroku Jitsuyo Shinan Koho 1994-2003 Kokai Jitsuyo Shinan Koho 1971-2003 Jitsuyo Shinan Toroku Koho 1996-2003 Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) SwissProt/PIR/GeneSeq, Genbank/EMBL/DDBJ/GeneSeq, MEDLINE (STN), WPIDS (STN), BIOSIS (STN), JICST FILE (JOIS)		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, A	WO 02/095025 A1 (Japan Science and Technology Corp.), 28 November, 2002 (28.11.02), & JP 2003-038189 A	1-8
A	EP 1074617 A2 (Helix Research Institute), 07 February, 2001 (07.02.01), & JP 2002-191363 A	1-8
A	WO 02/31111 A2 (HYSEQ, INC.), 18 April, 2002 (18.04.02), & AU 9623501 A	1-8
A	DENNING, G. et al., Cloning of a novel phosphatidylinositol kinase-related kinase, J.Biol.Chem., Vol.276, No.25, pages 22709 to 22714, 22 June, 2001 (22.06.01)	1-8
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.		
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Date of the actual completion of the international search 10 October, 2003 (10.10.03)		Date of mailing of the international search report 28 October, 2003 (28.10.03)
Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer
Facsimile No.		Telephone No.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/11353

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	YAMASHITA, A. et al., Human SMG-1, a novel phosphatidylinositol 3-kinase-related protein kinase, associates with components of the mRNA surveillance complex and is involved in the regulation of nonsense-mediated mRNA decay., Genes Dev., Vol.15, No.17, p.2215-28, 01 September, 2001 (01.09.01)	1-8
P,A	CHIU S.Y. et al., Characterization of human Smg5/7a: a protein with similarities to Caenorhabditis elegans SMG5 and SMG7 th at functions in the dephosphorylation of Upf1., RNA, Vol.9, No.1, pages 77 to 87, 2003 January	1-8
A	Akeo YAMASHITA et al., mRNA Surveillance Idenshi Hen'i ni Taisuru Fuhenteki na Saibo no Bogyo Kiko, Protein, Nucleic acid and Enzyme, 01 February, 2002 (01.02.02), Vol.47, No.2, pages 101 to 112	1-8
A	Tetsuo ONISHI et al., Shinki P13K Kanren Kyodai Protein Kinase no Kozo to Kino no Kaiseki, Dai 22 Kai The Molecular Biology Society of Japan Nenkai Program Koen Yoshishu, Dai 22 Kai The Molecular Biology Society of Japan Nenkai Soshiki Iinkai, 22 November, 1999 (22.11.99), page 235, W2I-7	1-8

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International application No.

PCT/JP03/11353

Box I Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☒ Claims Nos.: 9-17
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
Claims 9 to 11 relate to a substance defined by the desired function of "controlling SMGBPl activity" and thus involve any substances having such function. However, no specific substance corresponding thereto is presented in the description. Therefore, claims 9 to 11 (continued to extra sheet)
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest ☐ The additional search fees were accompanied by the applicant's protest.
☐ No protest accompanied the payment of additional search fees.

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PCT/JP03/111353

Continuation of Box No. I-2 of continuation of first sheet (1)

are neither supported by the description nor disclosed therein. Even though the common technical knowledge at the point of the application is taken into consideration, it is unknown what specific compounds are involved therein and what are not. Thus, the above claims are described in an extremely unclear manner. The same applies to methods using the above substance and utilization thereof as set forth in claims 12 to 17.

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Lir

encodes a protein kinase of the phosphatidylinositol kinase superfamily of protein kinases; SMG-1 kinase activity is required in vivo for nonsense-mediated mRNA decay and in vitro for SMG-2 phosphorylation

Date introduced: September 28, 2004

Registry Number: EC 2.7.1.37

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Primary Examiner
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